

**ABSTRACT**

A drive circuit for operating a resonant motor includes a motor circuit, a feedback circuit, a control circuit, and a coil drive circuit. A feedback loop includes the motor circuit, the feedback circuit, and the control circuit. The feedback loop in conjunction with the coil drive  
5 circuit monitors, maintains, and adjusts the oscillatory motion of the resonant motor. The drive circuit is suitable for operating a resonant motor of an optical code reader.